Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (original) A carrier virtual network interface system to allow an accessing

telecommunication network managed by a network management system to indirectly manage the

layer one resources dedicated to a carrier virtual network, the layer one resources dedicated to

the carrier virtual network being directly managed by the network management system of each of

at least one dedicating telecommunication network, the interface system comprising:

a dedicating network interpretation layer that interfaces with the network

management system of a dedicating telecommunication network, the dedicating

network interpretation layer converting network information regarding layer one

resources dedicated to the carrier virtual network from the dedicating

telecommunication network to messages for transmission to the network

management system of the accessing telecommunication network and converting

messages from the network management system of the accessing

telecommunication network to network instructions for use by the network

management system of the dedicating telecommunication network;

an accessing network interpretation layer that interfaces with the network

management system of the accessing telecommunication network, the accessing

network interpretation layer converting messages received from the network

management system of the dedicating telecommunication network to network

information for use by the network management system of the accessing

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telecommunication network and converting network instructions from the

network management system of the accessing telecommunication network to

messages for transmission to the network management system of each of the at

least one dedicating telecommunication networks; and

a communication layer that transmits messages from the dedicating

network interpretation layer to the accessing network interpretation layer and

from the accessing network interpretation layer to the dedicating network

interpretation layer.

2. (original) The carrier virtual network interface of claim 1, further

comprising:

a second dedicated network interpretation layer that interfaces with the

network management system of a second dedicating telecommunication network,

the second dedicated network interpretation layer converting network information

regarding layer one resources dedication to the carrier virtual network from the

second dedicating telecommunication network to messages for transmission to the

network management system of the accessing telecommunication network to

network instructions for use by the network management system of the second

dedicating telecommunication network.

3. (original) The carrier virtual network interface of claim 1, wherein:

the dedicated network interpretation layer converts network information to

XML messages; and

2585656v1 Page 3 of 25 the accessing network interpretation layer converts network instructions to XML messages.

(original) The carrier virtual network interface of claim 2, wherein:
 the dedicated network interpretation layer converts network information to
 XML messages;

the second dedicated network interpretation layer converts network information to XML messages; and

the accessing network interpretation layer converts network instructions to XML messages.

(original) The carrier virtual network interface of claim 1, wherein:
 the dedicated network interpretation layer converts network information to
 ASCII text messages; and

the accessing network interpretation layer converts network instructions to ASCII text messages.

(original) The carrier virtual network interface of claim 2, wherein:
 the dedicated network interpretation layer converts network information to

ASCII text messages;

the second dedicated network interpretation layer converts network information to ASCII text messages; and

the accessing network interpretation layer converts network instructions to ASCII text messages.

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7. (original) The carrier virtual network interface of claim 1, wherein the communication layer transmits messages using a CORBA protocol.

8. (original) The carrier virtual network interface of claim 2, wherein the communication layer transmits messages using a CORBA protocol.

9. (original) The carrier virtual network interface of claim 1, wherein the communication layer transmits messages using a JMS protocol.

10. (original) The carrier virtual network interface of claim 2, wherein the communication layer transmits messages using a JMS protocol.

- 11. (original) The carrier virtual network interface of claim 1, wherein the communication layer transmits using a Telnet protocol.
- 12. (original) The carrier virtual network interface of claim 2, wherein the communication layer transmits messages using a Telnet protocol..
- 13. (original) A carrier virtual network interface system to allow an accessing telecommunication network managed by a network management system to indirectly manage the layer on resources dedicated to a carrier virtual network, the layer one resources dedicated to the carrier virtual network being directly managed by the network management system of each of at least one dedicating telecommunication network, the interface system comprising:

a dedicating network business layer, the dedication network business layer transmitting signals between the network management system of the dedicating telecommunication network and the layer one resources of the dedicating telecommunication network, the signals transmitted over the dedicating network

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business layer permitting the network management system of the dedicating telecommunication network to directly manage the layer one resources of the

dedicating telecommunication network;

an accessing network business layer, the accessing network business layer transmitting signals between the network management system of the accessing telecommunication network and the layer one resources of the accessing telecommunication network, the signals transmitted over the accessing network business layer permitting the network management system of the accessing

telecommunication network to directly manage the layer one resources of the

accessing telecommunication network;

a dedicating network interpretation layer, the dedicating network interpretation layer converting signals received from the layer one resources of the dedicating telecommunication network dedicated to the carrier virtual network to messages having a predetermined format and converting messages having a predetermined format to signals for transmission to the layer one resources of the

dedicating telecommunication network dedicated to the carrier virtual network;

an accessing network interpretation layer, the accessing network interpretation layer converting network instructions from the network management system of the accessing telecommunication network intended for the layer one resources of the dedicating telecommunication network dedicated to the carrier virtual network to messages having a predetermined format and converting messages having a predetermined format to network information signals; and

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a communication layer, the communication layer transmitting messages

having a predetermined format between the dedicating network interpretation layer and

the accessing network interpretation layer, whereby the network management system of

the accessing telecommunication network indirectly manages the layer one resources of

the dedicating telecommunication network dedicated to the carrier virtual network by:

the network management system of the accessing telecommunication

network issuing network instructions intended for the layer one resources of the

dedicating telecommunication network, the network instructions being directed to

the accessing network interpretation layer;

the accessing network interpretation layer converting the network

instructions to messages having a predetermined format, the messages being

directed to the communication layer;

the communication layer transmitting messages from the accessing

network interpretation layer to the dedicating network translation layer;

the dedicating network interpretation layer converting the messages

received from the communication layer to network instructions for transmission

over the dedicating network business layer, the accessing network interpretation

layer directing the network instructions to the layer one resources of the

dedicating telecommunication network dedicated to the carrier virtual network;

the layer one resources of the dedicating telecommunication network

transmitting network information over the dedicating network business layer to

the dedicating network interpretation layer;

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the dedicating network interpretation layer converting the network information to messages having a predetermined format, the messages being directed to the communication layer;

the communication layer transmitting messages from the dedicating network interpretation layer to the accessing network interpretation layer;

the accessing network interpretation layer converting the messages received from the communication layer to network information, the accessing network interpretation layer directing the network information to the management system of the accessing telecommunication network; and

the management system of the accessing telecommunication network receives network information regarding the layer one resources of the dedicating telecommunication network dedicated to the carrier virtual network from the accessing network translation layer.

14. (original) A method for interfacing the management of layer one telecommunication resources in a carrier virtual network, wherein the management system of an accessing telecommunication network may indirectly manage layer one resources dedicated to the carrier virtual network by at least one dedicating telecommunication network having a dedicating telecommunication network management system, the method comprising:

> converting network information regarding layer one resources of the dedicating telecommunication network dedicated to the carrier virtual network to messages having a predetermined format;

> transmitting messages having a predetermined format to the management system of an accessing telecommunication network;

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converting messages transmitted to the management system of the accessing telecommunication network to a format useable by the accessing telecommunication network management system;

issuing network instructions for the layer one resources of the dedicating telecommunication network dedicated to the carrier virtual network from the network management system of the accessing telecommunication network;

converting the network instructions to messages having a predetermined format;

transmitting messages having a predetermined format to the management system of a dedicating telecommunication network;

converting the messages transmitted to the management system of the dedicating telecommunication network to network instructions to a format useable by the dedicating telecommunication network management system; and

transmitting the network instructions to the layer one resources of the dedicating telecommunication network dedicated to the carrier virtual network to those layer one resources.

15. (original) The method for interfacing the management of layer one telecommunication resources of claim 14, wherein the predetermined format of messages is XML.

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16. (original) The method for interfacing the management of layer one

telecommunication resources of claim 15, wherein the steps of transmitting messages having a

predetermined format to the management system of an accessing telecommunication network

and of transmitting messages having a predetermined format to the management system of a

dedicating telecommunication network comprises transmitting messages using a CORBA

protocol.

17. (original) The method for interfacing the management of layer one

telecommunication resources of claim 15, wherein the steps of transmitting messages having a

predetermined format to the management system of an accessing telecommunication network

and of transmitting messages having a predetermined format to the management system of a

dedicating telecommunication network comprises transmitting messages using a JMS protocol.

18. (original) The method for interfacing the management of layer one

telecommunication resources of claim 15, wherein the steps of transmitting messages having a

predetermined format to the management system of an accessing telecommunication network

and of transmitting messages having a predetermined format to the management system of a

dedicating telecommunication network comprises transmitting messages using a Telnet protocol.

19. (original) The method for interfacing the management of layer one

telecommunication resources of claim 14, wherein the predetermined format of messages is

ASCII text.

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20. (original) The method for interfacing the management of layer one

telecommunication resources of claim 19, wherein the steps of transmitting messages having a

predetermined format to the management system of an accessing telecommunication network

and of transmitting messages having a predetermined format to the management system of a

dedicating telecommunication network comprises transmitting messages using a CORBA

protocol.

21. (original) The method for interfacing the management of layer one

telecommunication resources of claim 19, wherein the steps of transmitting messages having a

predetermined format to the management system of an accessing telecommunication network

and of transmitting messages having a predetermined format to the management system of a

dedicating telecommunication network comprises transmitting messages using a JMS protocol.

22. (original) The method for interfacing the management of layer one

telecommunication resources of claim 19, wherein the steps of transmitting messages having a

predetermined format to the management system of an accessing telecommunication network

and of transmitting messages having a predetermined format to the management system of a

dedicating telecommunication network comprises transmitting messages using a Telnet protocol.

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23.

readable code embodied thereon for causing a carrier virtual network system to perform a method for interfacing the management of layer one telecommunication resources in a carrier virtual network, wherein the management system of an accessing telecommunication network may indirectly manage layer one resources dedicated to the carrier virtual network by at least one

(original) At least one machine readable media containing machine

dedicating telecommunication network having a dedicating telecommunication network

management system, the method comprising:

converting network information regarding layer one resources of the dedicating telecommunication network dedicated to the carrier virtual network to messages having a predetermined format;

transmitting messages having a predetermined format to the management system of an accessing telecommunication network;

converting messages transmitted to the management system of the accessing telecommunication network to a format useable by the accessing telecommunication network management system;

issuing network instructions for the layer one resources of the dedicating telecommunication network dedicated to the carrier virtual network from the network management system of the accessing telecommunication network;

converting the network instructions to messages having a predetermined format;

transmitting messages having a predetermined format to the management system of a dedicating telecommunication network;

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converting the messages transmitted to the management system of the

dedicating telecommunication network to network instructions to a format useable by the

dedicating telecommunication network management system; and

transmitting the network instructions to the layer one resources of the

dedicating telecommunication network dedicated to the carrier virtual network to those

layer one resources.

24. (original) The at least one machine readable media of claim 23, wherein

the predetermined format of messages is XML.

25. (original) The at least one machine readable media of claim 24, wherein

the steps of transmitting messages having a predetermined format to the management system of

an accessing telecommunication network and of transmitting messages having a predetermined

format to the management system of a dedicating telecommunication network comprises

transmitting messages using a CORBA protocol.

26. (original) The at least one machine readable media of claim 24, wherein

the steps of transmitting messages having a predetermined format to the management system of

an accessing telecommunication network and of transmitting messages having a predetermined

format to the management system of a dedicating telecommunication network comprises

transmitting messages using a JMS protocol.

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27. (original) The at least one machine readable media of claim 24, wherein

the steps of transmitting messages having a predetermined format to the management system of

an accessing telecommunication network and of transmitting messages having a predetermined

format to the management system of a dedicating telecommunication network comprises

transmitting messages using a Telnet protocol.

28. (original) The at least one machine readable media of claim 23, wherein

the predetermined format of messages is ASCII text

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